

NCERT

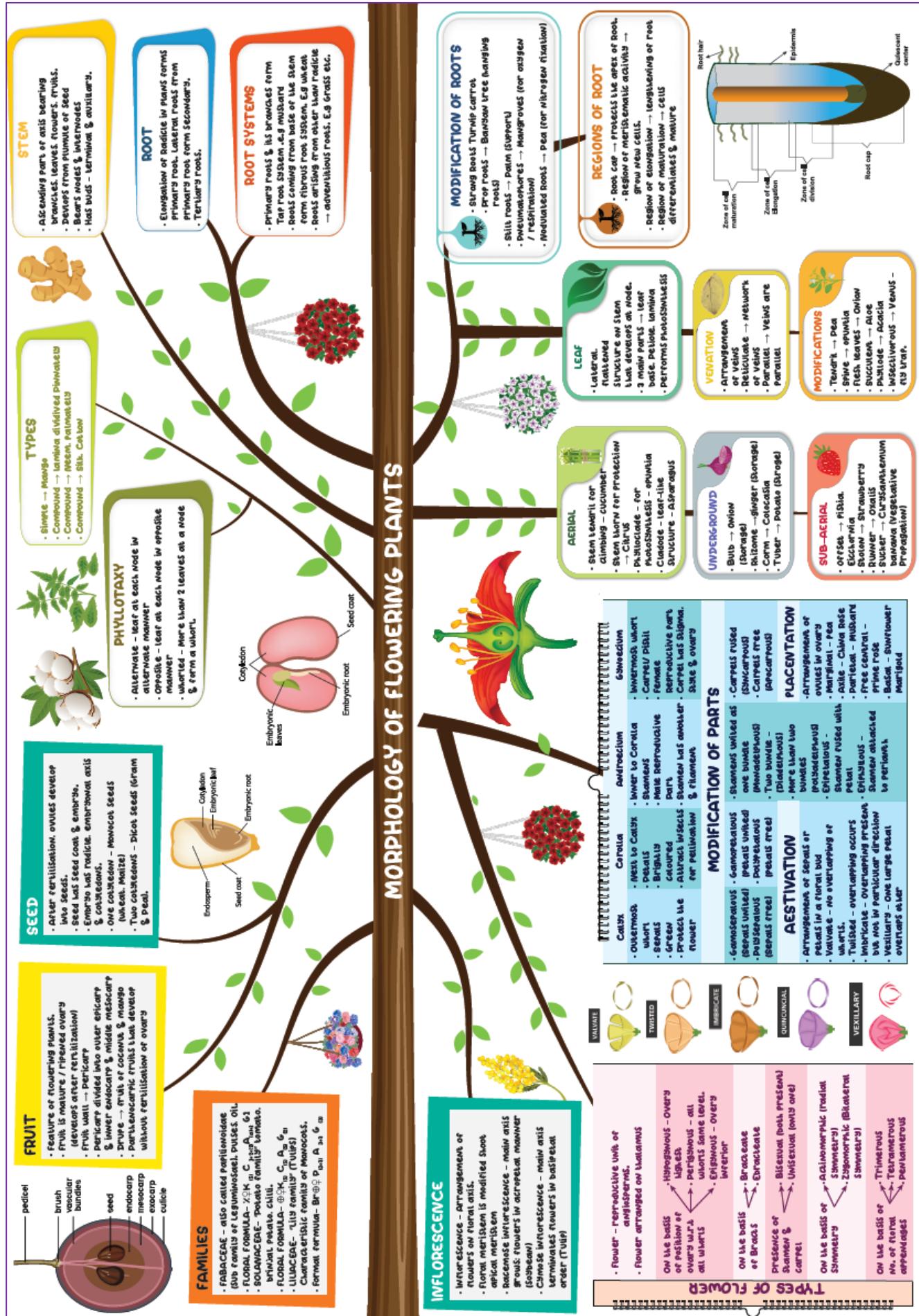
CHAPTER WISE TOPIC WISE

LINE BY LINE QUESTIONS

2024



BY
SCHOOL OF
EDUCATORS



NCERT LINE BY LINE QUESTIONS

Unit-2

1. Curly top virus spreads a plant via-
A) Xylem B) Phloem C) Vascular bundle D) None of these
2. The book 'Plant Anatomy' was published by Esau in -
A) Same year as she did her doctorate B) 1960
C) 1954 D) 1957
3. Which of referred as 'Webster's of plant biology' - an encyclopedia
A) Plant anatomy B) Anatomy of angiospermic plant
C) Anatomy of seed plants D) A & B both
4. Esau was _____ woman to receive 'National Academy of science '
A) 7th B) 6th C) 5th D) 1st
5. Statement - I: Esau got National Academy of Science in 1957 Statement - II: In 1989, Esau received National Medal of Science in 1989.
A) Statement - I & statement - II are both correct
B) Statement - I & statement - II are both incorrect
C) Statement - I is correct and statement - II is incorrect
D) Statement - I is incorrect and statement - I is correct
6. Morphology is study of
A) External structure of an organism B) Internal structure of an organism
C) Systematics D) A & B booth

Paragraph – 5.1

The Root

7. Radical form-
A) Root system of plant B) Floral part of plant
C) Shoot system of plant D) A & B both
8. The lateral roots arise from primary root is-
A) Primary root B) Secondary root
C) Tertiary root D) A & B both
9. Choose the given statement which is suitable for following figure



- A) It comprises of primary & secondary root
- B) Such roots are observed in mustard
- C) These roots are replace by large number root

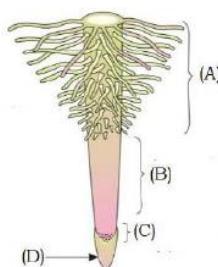
- D) A & B both
10. From given set of example choose, how many of following are example of fibrous root and adventitious root respectively.
Sweet potato, carrot, turnip, wheat, grass, *Monstera*, banyan tree
 A) 1, 4 B) 1, 3 C) 2, 3 D) 3, 2
11. Adventitious roots arise from-
 A) Radicle B) Base of stem in tuft as in wheat
 C) Part of plant other than radicle as in mustard D) Secondary root
12. Root is characterized by
 A) Presence of node & internode B) Mainly (-ve) phototropism
 C) Mainly (-ve) geotropism D) Mainly (-ve) hydrotropism
13. Which of the following is not the main function of root system is/are
 A) Absorption of sap from soil
 B) Providing proper anchorage to plant parts.
 C) Synthesis of plant growth regulators
 D) None of these
14. Identify given diagram



- | | | |
|--|--|---|
| A)
A) Tap root
B) Tap root
C) Adventitious root
D) Fibrous root | B)
Fibrous root
Adventitious root
Fibrous root
Tap root | C)
Adventitious root
Fibrous root
Tap root
Adventitious root |
|--|--|---|

Paragraph-5.1.1 Regions of the Root

15. In aquatic plant the apex of root is covered by
 A) Thimble parenchymatous root cap B) Root pocket
 C) Coleorhiza D) Coleoptile
16. Identify region of root tip



- A) A = Region of maturation, B = Region of elongation, C = Region of meristematic activity, D = Root cap
 B) A = Region of elongation, B = Region of meristematic activity, C = Root cap, D

- = Protective covering

C) A = Region of meristem, B = Region of maturation, C = Region of elongation,
D = Root cap

D) A = Region of growing cell, B = Region of mature cell, C = Region of dividing
cell, (D = Protective covering)

17. Root hair arise from –

A) Cortical cell of region of maturation

B) Epidermal cell of region of maturation

C) Cortical cell of region of elongation

D) Epidermal cell of region of elongation

Column - I

- A) Region of meristematic
 - B) Region of elongation
 - C) Region of maturation
 - D) Root hair

Column - II

- Small thin wall dense
 - Responsible for growth of root in length
 - Proximal to region of elongation
 - Differentiated and mature

cell proximal to region of maturation

Paragraph-5.1.2

Modification of Root:

19. Pneumatophores are helpful in-

 - A) Transpiration
 - B) Getting oxygen for respiration
 - C) Absorption of water
 - D) Assimilation of food

20. Silt roots and pneumatophores are observed in-

 - A) Maize, *Rhizophora*
 - B) Maize, *Rhizopus*
 - C) Sugarcane *Rhizopus*
 - D) A & B both

21. Mechanical root observed in -

 - A) Sugarcane
 - B) Maize
 - C) Banyan tree
 - D) All of these

22. For food storage root get modified in -

 - A) Potato
 - B) Sweet potato
 - C) Ginger
 - D) A & B both

Match the following:

- A) Conical root
 - B) Napiform root
 - C) Tuberous root
 - D) Fusiform root

C-1 II

- (I) Radish
(II) Turnip
(III) Sweet potato
(IV) carrot

Task 3

- A) IV II III I
C) III IV I II

•) cannot

- B) IV III II I
D) III IV I II

24. Modification of root *Asparagus* is meant for -

- A) Storage of food B) Mechanical support
C) Respiration D) Climbing support

25. Slit root arise from –
A) Lower nodes of Zea mays B) Lower internode of sugarcane
C) Lower internode of Zea mays D) Upper node of sugarcane

26. Pneumatophores are
i) Positive geotropism ii) Negative geotropism
iii) Grown in marshy area iv) Found in mangroves
v) Positive phototropism vi) Negative phototropism
A) i, iii, iv, vi B) ii, iii, iv, v
C) i, iii, v D) ii, iv, vi

Paragraph-5.2

Stem:

27. Stem distinguish from root in -
A) Presence of node & internode B) Absence of node & internode
C) Presence of hairs for water absorption D) Absence of bud

28. Stem are develop from -
A) Radicle of germinating seed B) Plumule of germinating seed
C) Cotyledons of germinating seed D) Coleoptile

29. The region of stem where leaves are born are ____
A) Nodes B) Internode
C) Both node & internode D) Floral bud

30. Stems are generally -
A) (+ve) geotropism, (-ve) hydrotropism, (+ve) phototropism
B) (-ve) geotropism, (-ve) hydrotropism, (+ve) phototropism
C) (+ve) geotropism, (+ve) hydrotropism, (+ve) phototropism
D) (+ve) geotropism, (-ve) hydrotropism, (- ve) phototropism

Paragraph-5.2.1

Modification of stem:

31. Underground modified stem of potato is known as-
A) Tuber B) Rhizome C) Corm D) Bulb

32. Stem store food for-
A) Favourable condition growth B) Unfavourable condition growth
C) Flowering condition D) A & C both

33. Choose odd one with respect to stem modification -
A) Zaminkand B) Colocasia C) Bougainvillea D) Turmeric

34. How many of following stem modification does develop from axillary buds
Colocasia, grapevines, cucumber, pumpkin, *Opuntia*, Citrus, Watermelon, *Bougainvillea*
A) 7 B) 6 C) 5 D) 4

35. Ginger and turmeric are example of -
A) Rhizome B) Rhizoid C) Corm D) Roots

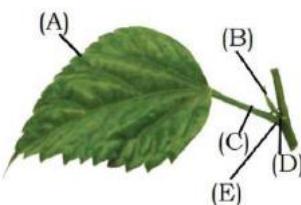
36. Photosynthetic green flattened modified stem xerophyte is in -
A) *Acacia* B) *Euphorbia* C) *Opuntia* D) *Hydrilla*

- C) Protection D) Vegetative propagation
45. Lateral branch with short internode & each node bearing a rosette of leaves and a tuft of root found in -
 A) *Pistia* B) *Eichhornia* C) Grasses D) A & B both

Paragraph-5.3

The leaf

46. Choose the correct response:
 A) Leaf develop at the node and bears a bud in its axile
 B) Leaves originate from SAM are arranged in acropetal orders.
 C) Leaf is lateral gernerally flattened vegetative structure for photosynthesis
 D) All of these
47. Stipules are -
 A) Two lateral small leaf like structure
 B) Four lateral small leaf like structure
 C) One lateral small leaf like structure
 D) Many lateral small leaf like
48. The leaf base expanded into a sheath crossing the stem partially or wholly in-
 A) Monocot B) Dicot
 C) All angiosperms plant D) Gymnosperms
49. Pulvinus is -
 A) Swollen leaf base of legume
 B) Swollen petiole of legume and china Rose
 C) Swollen lamina D) Swollen stipule
50. Label - A, B, C, D, E



	A	B	C	D	E
A)	Lamina	Stipule	Petiole	Axillary bud	Leaf base
B)	Lamina	Stipule	Petiole	Axillary bud	Leaf base
C)	Lamina	Pulvinus	Pedicel	Axillary bond	Leaf base
D)	Lamina	Stipule	Pedicel	Extraaxillary bond	Leaf base

Paragraph-5.3.1

Venation

51. Arrangement of vein & veinlet in lamina of leaf
 A) Venation B) Phyllotaxy C) Aestivation D) None of these
52. Leaves of dicotyledonous plants generally characterized by -
 A) Presence of parallel venation
 B) Veins which are parallel to each other within a lamina.
 C) Presence of reticulate venation
 D) A & B both

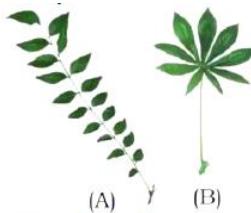
53. Identify the leaf venation and type of leaf.



- A) Parallel venation; monocot mainly
- B) Parallel venation; dicot mainly
- C) Reticulate venation; dicot mainly
- D) Reticulate venation; monocot mainly

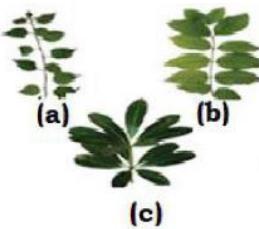
Paragraph-5.3.2 Types of leaves:

54. A leaf is simple
- A) When its lamina is entire
 - B) When its lamina is incised, the incision do not touch the midrib
 - C) A & B both
 - D) None of these
55. When the incisions of lamina reach to midrib breaking leaf into a number of leaflet is not-
- A) Compound leaf
 - B) Simple leaf
 - C) Pinnate leaf
 - D) Palmate leaf
56. Identify A and B



- A) A = pinnately compound leaf; Neem B = palmately compound leaf; Silk cotton
 - B) A = palmately compound leaf; Silk cotton B = pinnately compound leaf; Neem
 - C) A = pinnately compound leaf; Silk cotton B = palmately compound leaf; Neem
 - D) A = palmately compound leaf; Neem B = pinnately compound leaf; Silk cotton
57. Midrib of pinnately compound leaf is -
- A) Mid-vein
 - B) Rachis
 - C) Petiole
 - D) None of these
58. Leaflet of pinnately compound leaf arise on-
- A) Common point i.e. at tip of petiole
 - B) Common axis
 - C) Common point i.e. at tip of rachis
 - D) A & C both
59. Leaflet of _____ arise on common point i.e. at tip of petiole
- A) Pinnately compound leaf
 - B) Palmately compound leaf
 - C) Simple leaf
 - D) All of these

Paragraph-5.3.3 Phyllotaxy



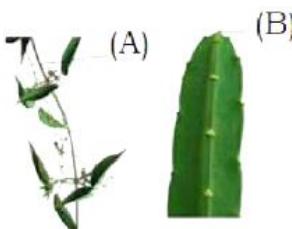
Paragraph-5.3.4

Modification of leaves:

64. In Australian acacia

 - A) Lamina modification
 - B) Petiole modified
 - C) Stipule modified
 - D) All of these

65. Select the correct option:



66. Pitcher of pitcher plant is modified –

 - A) Leaf B) Stem C) Root D) Fruit

A) Both A & B are modified by leaves
B) A is tendrils for climbing
C) B is spines for defence D) All of these

Paragraph-5.4

The inflorescence:

67. Flower is modified -
A) Node B) Internode C) Leaf D) Shoot

68. Choose the correct statement

 - A) In flower, SAM changes to floral meristem
 - B) In flower, internode do not elongate
 - C) The axis get condensed in flower.
 - D) All of these

69. The arrangement of flowers on the floral axis is –

 - A) Phyllotaxy
 - B) Inflorescence
 - C) Aestivation
 - D) Placentation

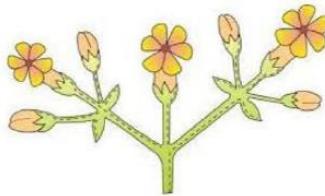
70. On the basis whether floral apex gets develop into flower or continues to grow, inflorescence are mainly of-

 - A) 3 types
 - B) 4 types
 - C) 2 types
 - D) None of these

71. In racemose-

 - A) Main axis continues to grow
 - B) Flower are in basipetal order
 - C) Main axis terminate into flower
 - D) B & C both

72. Choose the correct statement about given figure



- A) It is of racemose type inflorescence
B) Flowers are in basipetal order
C) Flowers are in acropetal order
D) Example of *Cassia*

73. Given diagram is of -



- A) Racemose inflorescence B) Cymose inflorescence
C) Cymose inflorescence of Cassia D) B & C both

Paragraph-5.5

The flower:

- C) Accessory whorl D) Receptacle for different whorl

77. Choose the correct statement-

A) Calyx, corolla, are accessory organ
B) Androecium, gynoecium are reproductive organ
C) Perianth present in lily D) All of these

78. Perianth is

A) Indistinct calyx & corolla B) Fused corolla & androecium
C) Reproductive organ D) None of these

79. Bisexual flowers is -

A) When a flower has both androecium & gynoecium
B) Present in Solanaceae, Liliaceae
C) Present in mustard and Pea
D) All of these

80. How many of following show Actinomorphic, Zygomatic respectively.
Mustard, datura, chilli, Pea, Canna, bean, gulmohur, Cassia

A) 3, 4 B) 4, 3 C) 4, 4 D) None of these

81. **Statement - I:** when a flower can be divided into two equal radial halves in any radial plane passing through the centre it is actinomorphic flower
Statement - II: when a flower can be divided into two similar halves only in one particular vertical plane, it is zygomatic

A) Statement - I & II are correct B) Statement - I is correct
C) Statement - II is correct only D) Statement - I & II are incorrect

82. *Cassia* show -

A) Racemose inflorescence, zygomatic
B) Racemose inflorescence, actinomorphic
C) Cymose inflorescence, actinomorphic
D) Cymose inflorescence, zygomatic

83. Flower with leaf that found the base of pedicel are -

A) Bracteate B) Ebracteate C) Petiolate D) Sessile

84. Flower with floral appendages 3 or multiple of 3 are said -

A) Tetramerous B) Trimerous
C) Triploid D) Pentamerous

85. In hypogynous flower which of following floral part takes highest position

A) Calyx B) Corolla C) Androecium D) Pistil

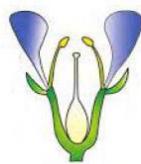
86. Which of following is mismatched

Column 1	Column 2
A) 	1. Mustard



B)

2. Brinjal



C)

3. Peach



P)

4. Cucumber

87. Superior ovary found in -
A) Hypogynous flower B) Perigynous flower
C) Epigynous flower D) Cucumber

88. Choose the correct about perigynous flower -
A) Gynoecium is situated in centre
B) Apart from gynoecium, rest parts are located on rim of thalamus almost at same level
C) Ovary is half inferior D) All of these

89. How many of following are example of perigynous, hypogynous and epigynous respectively.
Mustard, china Rose, Brinjal, plum, peach, rose, guava, cucumber, ray floret sunflower, Pea, Asparagus
A) 3, 3, 5 B) 3, 3, 3 C) 3, 5, 3 D) 5, 3, 3



(Pg. 73, E)

Paragraph-5.5.1

Parts of flower

91. Flower consist of -

 - A) Four reproductive whorl
 - B) Four whorl
 - C) Four accessory whorl
 - D) All of these

Paragraph-5.5.1.1 Calyx

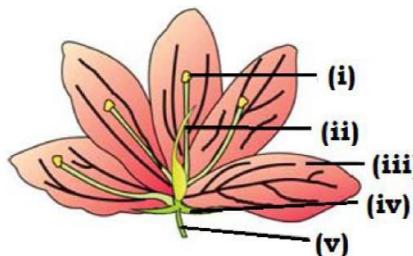
92. The outermost whorl of flower is -
A) Calyx B) Corolla C) Bract D) Thalamus

93. Choose the correct statement-

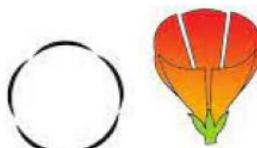
- A) Sepals are members of calyx B) Petals are members of calyx
 C) Sepal are plural of corolla D) None of these
94. Sepals united in _____ and sepals are free in _____ condition
 A) Gamosepalous, Polysepalous B) Polysepalous, Gamosepalous
 C) Polysepalous, Polysepalous D) Gamosepalous, Gamosepalous

Paragraph-5.5.1.2 Corolla

95. Corolla are -
 A) Composed of petal B) United by sepals
 C) Composed of tepals D) Usually for bud protection
96. Polypetalous is condition with _____ while gamopetalous is for _____
 A) Free petal; fused petal B) Fused petal; free petal
 C) Free petal; free petal D) Fused petal; fused petal
97. Label (i), (ii), (iii), (iv), (v)



- | | | | | | |
|----|---------------|-----------------|---------------|--------------|-----------|
| A) | (i) Gynoecium | (ii) Androecium | (iii) Pedicel | (iv) Corolla | (v) Calyx |
| B) | Gynoecium | Androecium | Corolla | Calyx | Pedicel |
| C) | Androecium | Gynoecium | Calyx | Corolla | Pedicel |
| D) | Androecium | Gynoecium | Corolla | Calyx | Pedicel |
98. The mode of arrangement of sepals or petals in floral bud with respect to the other members of same whorl is termed as-
 A) Placentation B) Aestivation
 C) Phyllotaxy D) Inflorescence
99. Given diagram represent -



- | | | | |
|----|-----------------------|----|-----------------------|
| A) | Twisted aestivation | B) | Imbricate aestivation |
| C) | Vexillary aestivation | D) | Valvate aestivation |
100. In *Calotropis*-
 A) Sepals or petals in a whorl just touch one another at the margin, without overlapping
 B) One margin of the appendage overlaps that of the next one
 C) Margin of sepals or petals overlap one another but not in particular direction
 D) None of these
101. "Keel" present in -
 A) Valvate B) Imbricate C) Papilionaceous D) Twisted
102. In Pea find odd one out -

- A) 'Standard' is largest petals B) 'Standard' overlaps the two lateral Keel.
 C) 'Keel' are smallest anterior petals. D) Keel are fused
103. The aestivation in gulmohur is -
 A) Valvate B) Twisted C) Imbricate D) Vexillary
104. Find odd one with respect to aestivation
 A) China rose B) Cassia C) Lady's finger D) Cotton

Paragraph-5.5.1.3

Androecium

105. Androecium composed of -
 A) Sepals B) Petal C) Stamen D) Carpel
106. Each anther is usually _____ and each lobe has _____ chambers, pollen sacs
 A) Bilobed; two B) Bilobed; four C) Tetralobed; four D) None
107. Staminode is -
 A) Fertile stamen B) Sterile stamen C) Both A & B D) None of these
108. How many of following statements are true.
 (i) Stamens united into one bundle i.e. monadelphous
 (ii) Monadelphous is in china Rose, diadelphous is in Pea and polycephalous is in Citrus
 (iii) Variation in the length of filaments within a flower as in Salvia & mustard
 (iv) Two bundle of stamens are diadelphous and when stamen are united into two or more bundle i.e. polyadelphous
 A) 1 B) 2 C) 3 D) 4

Paragraph-5.5.1.4 Gynoecium

109. Female reproductive part of flower is -
 A) Androecium B) Gynoecium C) Petal D) Sepal
110. Pollen grains receptive surface is -
 A) Stigma B) Style C) Ovary D) Ovule
111. Placenta attach-
 A) Ovule to ovary B) Ovary to thalamus
 C) Ovary and other floral part D) None of these
112. Apocarpous is-
 i) Free carpel ii) Fused carpel
 iii) Present in rose iv) Present in lotus
 v) Present in tomato
 A) i, iii, iv B) i, iii, v C) ii, iii, iv D) ii, iv, v
113. After fertilization, the ovary develop into _____ and ovule matures into a _____.
 A) Fruit; fruit B) Seed; fruit C) Fruit; seed D) Seed; seed
114. Placentation is arrangement of _____ within the _____.
 A) Ovary; ovule B) Placenta; embryosac
 C) Ovule; ovary D) None of these

115.



- A) Such placentation seen in Argemone
- B) The placenta is axial and the ovules are attached to it in an unilocular ovary
- C) Such placentation seen in china rose
- D) The placenta is axial and the ovules are attached to it in multilocular ovary as in *Dianthus*

116. Match the column I and column II

Column I

- 1 Parietal
 - 2 Axile
 - 3 Marginal
 - 4 Basal
 - 5 Free - central
- A) 1 - c, 2 - b, 3 - a, 4 - e, 5 - d
 - C) 1 - e, 2 - d, 3 - a, 4 - c, 5 - b

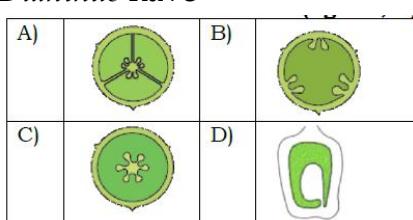
Column II

- a. Pea
 - b. Lemon
 - c. *Argemone*
 - d. *Primrose*
 - e. Sunflower
- B) 1 - d, 2 - c, 3 - a, 4 - b, 5 - e
 - D) 1 - b, 2 - e, 3 - a, 4 - d, 5 - c

117. Choose the correct statement -

- A) Unilocular ovary becomes two chambered due to the formation of false septum as in mustard
- B) In Argemone ovary is two chambered due to the formation of true septum
- C) Axile placentation found in multilocular ovary as in tomato
- D) A & C both

118. *Dianthus* have -



119. In Marigold -

- A) Same placentation found in sunflower
- B) Placenta develop at base of ovary
- C) Single ovule is attached to ovary
- D) All of those

Paragraph-5.6 The fruit

120. Parthenocarpic fruit is -

- A) Develop after fertilization from ovary
- B) Develop without fertilization
- C) Develop after fertilization from thalamus
- D) A & C both

121. Pericarp differentiated into –
- Outer thin epicarp, middle fleshy edible mesocarp and an inner stony hard endocarp in Mango
 - Outer fleshy epicarp, middle stony hard endocarp in mango
 - Outer thin epicarp, middle stony hard mesocarp and an inner seed in mango
 - None of these

Paragraph-5.7 The seed

122. Seed of wheat is made up of –
- A radicle, an embryonal axis & one cotyledon
 - A radicle, an embryonal axis & two cotyledon
 - Embryo only
 - Only one cotyledon

Paragraph-5.7.1

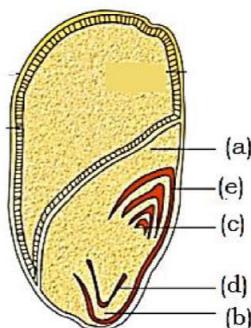
Structure of a dicotyledonous seed

123. Find odd one with respect to endosperm
- | | | | |
|--------|---------|-----------|---------|
| A) Pea | B) Gram | C) Castor | D) Bean |
|--------|---------|-----------|---------|
124. How many are correct statement about dicot seed?
- Testa, an inner layer is one of two layers of seed coat
 - Seed were attached to fruit by hilum
 - Micropyle is small pore below hilum
 - Castor is endospermic seed
- | | | | |
|------|------|------|------|
| A) 1 | B) 2 | C) 3 | D) 4 |
|------|------|------|------|

Paragraph-5.7.2

Structure of monocotyledonous seeds

125. How many of following is wrong stated statement?
- Generally monocot seeds are non-endospermic seed
 - Orchid is example of dicot seed
 - In maize, seed coat fused with fruit wall
 - Orchid is endospermic seed
- | | | | |
|------|------|------|------|
| A) 1 | B) 2 | C) 3 | D) 4 |
|------|------|------|------|
126. Label a, b, c, d, e



	a	b	c	d	e
A)	Scutellum	Coleorhiza	Plumule	Radicle	Coleoptile
B)	Scutellum	Coleorhiza	Radicle	Plumule	Coleoptile
C)	Scutellum	Coleoptile	Radicle	Plumule	Coleorhiza
D)	Scutellum	Coleoptile	Plumule	Radicle	Coleorhiza

127. Aleurone layer is -
 A) Carbohydrate enrich layer B) Proteinous layer
 C) Lipid enrich layer D) A and B
128. Scutellum present in
 A) Orchid B) Castor C) Pea D) Gram

Paragraph-5.8

Semi-technical description of a typical flowering plant-

129. Number of androecium in mustard is -
 A) 2 B) 4 C) 6 D) 5
130. How many of following is incorrect about Brassicaceae (mustard) actinomorphic, zygomorphic, bisexual, K4, superior ovary, C2+2, C(4)
 A) 1 B) 2 C) 3 D) 4

Paragraph-5.9 Description of some important family

Paragraph 5.9.1 Fabaceae

131. Fabaceae was earlier called as -
 A) Leguminosae B) Papilionoideae
 C) Both A & B D) Fabaceae
132. Given diagram is-



- A) L.S of carpel of pea B) Fruit of pea
 C) T.S. of carpel of pea D) Androecium of Pea

133. Calyx of fabaceae show-
 A) Polypetalous B) Polysepalous
 C) Valvate aestivation D) Both B & C

134. Androecium of Fabaceae is -
 A) Ten in number B) 9 are united
 C) 1 is free D) All of these

135. How many of following is endospermic seed-
 Arhar, groundnut, Indigofera, muliathi, *Sesbania*, *Trifolium*
 A) 0 B) 1 C) 2 D) 3

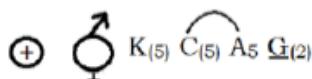
136. The correct floral formula of sunhemp is-

- A) $\oplus \text{♀} \text{ k}_{(5)} \text{ C}_{1+2+2} \text{ A}_{(9)+1} \text{ G}_1$
 B) $\% \text{♀} \text{ k}_{(5)} \text{ C}_{1+2+2} \text{ A}_{(9)+1} \text{ G}_1$
 C) $\% \text{♀} \text{ k}_{(5)} \text{ C}_5 \text{ A}_{10} \text{ G}_2$
 D) $\oplus \text{♂} \text{ P}_{3+3} \text{ A}_{3+3} \text{ G}_3$

Paragraph-5.9.2

Solanaceae

137. Which of the following is potato family?
 A) Fabaceae B) Solanaceae C) Liliaceae D) Brassicaceae
138. Find out one with respect to Solanaceae
 A) Alternate phyllotaxy B) Exstipulate
 C) Reticulate venation D) Pulvinate
139. In *Solanum*, inflorescence is-
 A) Racemose B) Cymose C) Solitary D) B and C
140. How many of following term is not correctly stated about tobacco's family.
 Bicarpellary, obligately placed, apocarpous, superior ovary, bilocular, placenta swollen with many ovules, free - central placentation, drupe fruit
 A) 0 B) 1 C) 2 D) 3
141. Persistent calyx found in-
 A) Brinjal B) Pea C) Onion D) *Colchicine*

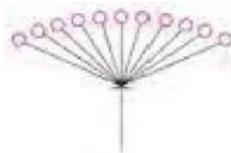


142. is floral formula of how many of following-
 Aloe, belladonna, ashwagandha, muliathi, sunhemp, *Indigofera*, *Gloriosa*
 A) 1 B) 2 C) 3 D) 4
143. Makoi plant -
 A) *Solanum nigrum* B) *Solanum tuberosum*
 C) *Allium* D) *Petunia*

Paragraph-5.9.3

Liliaceae

144. Given diagram is -



- A) Flower of *Allium* B) Inflorescence of *Allium*
 C) Inflorescence of dicot family D) Racemose
145. How many of following are endospermous seed.
 Aloe, Asparagus, Tulip, Potato, Tomato, Pea, *Petunia*, Chilli, *Sesbania*, *Trifolium*,
Lupin, Muliathi, Ashwagandha, *Colchicine*, *Gloriosa*
 A) 10 B) 8 C) 15 D) 5

146. Onion show-
 A) Axile placentation B) Parietal placentation
 C) Free central placentation D) Basal placentation
147. Gynoecium of Aloe is not-

A) Tricarpellary

B) Apocarpous

C) Syncarpous

D) Superior ovary

148. Floral formula of *Colchicum autumnale* does not show-

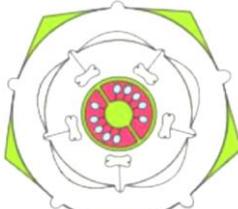
A) Br $\oplus \vec{\varphi}$

B) $P_{(3+3)} A_{(3+3)}$

C) $G(3)$

D) All of these

149. Choose mismatched -

Column-I	Column-II
	<i>Asparagus</i> (vegetables)
	Mustard
	<i>Pisum sativum</i>
	Brassicaceae

150. The floral feature of angiosperm represented in summarized form as-

A) Floral diagram

B) Floral formula

C) A and B

D) None of these

NEET PREVIOUS YEARS QUESTIONS

1. Sweet potato is a modified _____. [2018]
(a) stem (b) adventitious root (c) rhizome (d) tap root

2. Pneumatophores occur in _____. [2018]
(a) halophytes (b) free-floating hydrophytes
(c) submerged hydrophytes (d) carnivorous plants

3. Plants which produce characteristic pneumatophores and show vivipary belong to _____. [2017]
(a) halophytes (b) psammophytes (c) hydrophytes (d) mesophytes

4. In Bougainvillea, thorns are the modifications of _____. [2017]
(a) adventitious root (b) stem (c) leaf (d) stipules

5. Which of the following is not a stem modification?
(a) Pitcher of Nepenthes.
(b) Thorns of citrus.
(c) Tendrils of cucumber.
(d) Flattened structures of Opuntia. [2017]

6. Coconut fruit is a _____. [2017]
(a) Berry (b) Nut (c) Capsule (d) Drupe

7. The morphological nature of the edible part of coconut is _____. [2017]
(a) cotyledon (b) endosperm (c) pericarp (d) perisperm

8. Stems modified into flat green organs performing the functions of leaves are known as _____. [2016]
(a) cladodes (b) phyllodes (c) phylloclades (d) scales

9. The standard petal of a papilionaceous corolla is also called _____. [2016]
(a) carina (b) pappus (c) vexillum (d) corona

10. Proximal end of the filament of stamen is attached to the _____. [2016]
(a) anther (b) connective (c) placenta (d) thalamus or petal

11. Cotyledon of maize grain is called _____. [2016]
(a) plumule (b) coleorhiza (c) coleoptile (d) scutellum

12. Tricarpellary syncarpous gynoecium is found in flowers of _____. [2016]
(a) liliaceae (b) Solanaceae (c) fabaceae (d) poaceae

13. Which of the following pairs is not correctly matched? [2015]

	Mode of reproduction	Example
(a)	Rhizome	Banana
(b)	Binary fission	<i>Sargassum</i>
(c)	Conidia	<i>Penicillium</i>
(d)	Offset	Water hyacinth

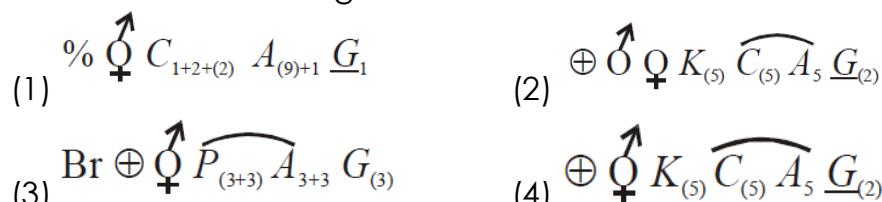
14. Leaves become modified into spines in: [2015]
 (a) Pea (b) Onion (c) Silk cotton (d) Opuntia
15. Flowers are unisexual in: [2015]
 (a) Cucumber (b) China rose (c) Onion (d) Pea
16. Perigynous flowers are found in: [2015]
 (a) Cucumber (b) China rose (c) Rose (d) Guava
17. Which one of the following fruits is parthenocarpic? [2015]
 (a) Apple (b) Jackfruit (c) Banana (d) Brinjal
18. The wheat grain has an embryo with one, large, shieldshaped cotyledon known as _____. [2015]
 (a) coleorrhiza (b) scutellum (c) coleoptile (d) epiblast
19. Axile placentation is present in _____. [2015]
 (a) lemon (b) pea (c) Argemone (d) Dianthus
20. Among china rose, mustard, brinjal, potato, guava, cucumber, onion and tulip, how many plants have superior ovary? [2015]
 (a) Six (b) Three (c) Four (d) Five
21. Coconut water from a tender coconut is [2015]
 (a) free nuclear endosperm. (b) innermost layers of the seed coar.
 (c) degenerated nucellus. (d) immature
 embryo.
22. $\oplus \overset{\rightarrow}{\text{♀}} K_{(5)} C_{(5)} A_5 G_{(2)}$ is the floral formula of _____. [2015]
 (a) Sesbania (b) Petunia (c) Brassica (d) Allium
23. Keel is the characteristic feature of flower of : [2015]
 (a) Indigofera (b) Aloe (c) Tomato (d) Tulip
24. An example of edible underground stem is: [2014]
 (a) Carrot (b) Groundnut (c) Sweet potato (d) Potato
25. When the margins of sepals or petals overlap one another without any particular direction, the condition is termed as: [2014]
 (a) Vexillary (b) Imbricate (c) Twisted (d) Valvate
26. Placenta and pericarp are both edible portions in _____. [2014]
 (a) apple (b) banana (c) tomato (d) potato
27. An aggregate fruit is one which develops from [2014]
 (a) multicarpellary, syncarpous gynoecium. (b) multicarpellary, apocarpous gynoecium.
 (c) complete inflorescence. (d) multicarpellary, superior ovary.
28. Which one of the following statement is correct? [2014]
 (a) The seed in grasses is not endospermic. (b) Mango is a parthenocarpic fruit.
 (c) A proteinaceous aleurone layer is present in maize grain.
 (d) A sterile pistil is called a staminode.

29. Placentation, in which ovules develop on the inner wall of the ovary or in peripheral part, is **(NEET-2019)**
 (1) Basal (2) Axile (3) Parietal (4) Free central
30. Which of the following shows whorled phyllotaxy ? **(NEET-2019 ODISSA)**
 (1) Mustard (2) China rose (3) Alstonia (4) Calotropis
31. Bicarpellary ovary with obliquely placed septum is seen in **(NEET-2019 ODISSA)**
 (1) Brassica (2) Aloe (3) Solanum (4) Sesbania
32. Match the placental types (column-I) with their examples (column-II) **(NEET-2019 ODISSA)**

Column-I	Column-II
(a) Basal	(i) Mustard
(b) Axile	(ii) China rose
(c) Parietal	(iii) Dianthus
(d) Free central	(iv) Sunflower

Choose the correct answer from the following options:

- (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i) (2) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
 (3) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii) (4) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
33. Which of the following is the correct floral formula of Liliaceae? **(NEET-2020 COVID)**



34. Correct position of floral parts over thalamus in mustard plant is : **(NEET-2020 COVID)**

- (1) Gynoecium occupies the highest position, while the other parts are situated below it.
 (2) Margin of the thalamus grows upward, enclosing the ovary completely, and other parts arise below the ovary.
 (3) Gynoecium is present in the centre and other parts cover it partially.
 (4) Gynoecium is situated in the centre, and other parts of the flower are located at the rim of the thalamus, at the same level.

35. In some plants thalamus contributes to fruitformation. Such fruits are termed as **(NEET-2020 COVID)**

- (1) False fruits (2) Aggregate fruits (3) True fruits (4)
 Parthenocarpic fruit

36. Identify the correct features of Mango and Coconut fruits. **(NEET-2020 COVID)**
 (i) In both fruit is a drupe
 (ii) Endocarp is edible in both
 (iii) Mesocarp in Coconut is fibrous, and in Mango it is fleshy
 (iv) In both, fruit develops from monocarpellary ovary

Select the correct option from below:

- (1) (i), (iii) and (iv) only (2) (i), (ii) and (iii) only (3) (i) and (iv) only (4) (i) and (ii) only
37. The roots that originate from the base of the stem are (NEET-2020)
 1) Lateral roots 2) Fibrous roots 3) Primary roots 4) Prop roots
38. Ray florets have: (NEET-2020)
 1) Half inferior ovary 2) Inferior ovary 3) Superior ovary 4) Hypogynous ovary
39. The ovary is half inferior in (NEET-2020)
 1) Plum 2) Brinjal 3) Mustard 4) Sunflower
40. Diadelphous stamens are found in: [NEET-2021]
 1) Citrus 2) Pea 3) China rose and citrus 4) China rose
41. Match List – I with List – II [NEET-2021]

	List – I		List – II
a)	$\frac{1}{2} \text{♀} K_{(5)} C_{1+2+(2)} A_{(9)+1} G_1$	i)	Brassicaceae
b)	$\oplus \text{♀} K_{(5)} \widehat{C_{(5)}} A_5 G_2$	ii)	Liliaceae
c)	$\oplus \text{♀} P_{(3+3)} \widehat{A_{3+3}} G_{(3)}$	iii)	Fabaceae
d)	$\oplus \text{♀} K_{2+2} C_4 A_{2-4} G_{(2)}$	iv)	Solanaceae

a b c d

- 1) i ii iii iv
 2) ii iii iv i
 3) iv ii i iii
 4) iii iv ii i

42. Which one of the following plants show vexillary aestivation and diadelphous stamens? [NEET-2022]
 1) Colchium autumnale 2) Pisum sativum
 3) allium cepa 4) Solanum nigrum
43. The flowers are Zygomorphic in: [NEET-2022]
 a) Mustard b) Gulmohar c) Cassia d) Datura
 e) Chilly
- Choose the correct answer from the options given below:
- 1) a, b, c only 2) b, c only 3) d, e only 4) c, d, e only
44. Identify the correct set of statements: [NEET-2022]
 a) The leaflets are modified into pointed hard thorns in citrus and Bougainvillea
 b) Axillary buds form slender and spirally coiled tendrils in cucumber and pumpkin
 c) Stem is flattened and fleshy in opuntia and modified to perform the function of leaves

- d) Rhizophora shows vertically upward growing roots that help to get oxygen for respiration
- e) Subaerially growing stems in grasses and strawberry help in vegetative propagation.

Choose the correct answer from the options given below

- 1) b and c only
- 2) a and d only
- 3) b, c, d and e only
- 4) a, b, d and e only

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1) B	2) C	3) C	4) B	5) A	6) D	7) A	8) B	9) D	10) B
11) C	12) B	13) D	14) B	15) B	16) A	17) B	18) D	19) B	20) A
21) D	22) B	23) A	24) A	25) A	26) B	27) A	28) B	29) A	30) B
31) A	32) B	33) C	34) B	35) A	36) C	37) A	38) A	39) B	40) B
41) A	42) D	43) A	44) D	45) D	46) D	47) A	48) A	49) A	50) A
51) A	52) C	53) A	54) C	55) B	56) A	57) B	58) B	59) B	60) A
61) B	62) D	63) A	64) B	65) D	66) A	67) D	68) D	69) B	70) C
71) A	72) B	73) A	74) D	75) B	76) C	77) D	78) A	79) D	80) A
81) A	82) A	83) A	84) B	85) D	86) B	87) A	88) D	89) B	90) B
91) B	92) A	93) A	94) A	95) A	96) A	97) D	98) B	99) D	100) A
101) C	102) B	103) C	104) B	105) C	106) A	107) B	108) D	109) B	110) A
111) A	112) A	113) C	114) C	115) C	116) A	117) D	118) C	119) D	120) B
121) A	122) A	123) C	124) B	125) C	126) A	127) B	128) A	129) C	130) D
131) B	132) A	133) C	134) D	135) A	136) B	137) B	138) D	139) D	140) D
141) A	142) B	143) A	144) B	145) A	146) A	147) B	148) B	149) B	150) C

NEET PREVIOUS YEARS QUESTIONS -KEY

1 (b)	2 (a)	3 (a)	4 (b)	5 (a)	6 (d)	7 (b)	8 (c)	9 (c)	10 (d)
11 (d)	12 (a)	13 (b)	14 (d)	15 (a)	16 (c)	17 (c)	18 (b)	19 (a)	20 (a)
21 (a)	22 (b)	23 (a)	24 (d)	25 (b)	26 (c)	27 (b)	28 (c)	29 (3)	30 (3)
31 (3)	32 (3)	33 (3)	34 (1)	35 (1)	36 (1)	37 (2)	38 (2)	39 (1)	40 (2)
41 (4)	42 (2)	43 (2)	44 (3)						

NEET PREVIOUS YEARS QUESTIONS -Explanations

1. (b) Sweet potato is a modified adventitious root for storage of food. Rhizomes are underground modified stem. Tap root is primary root directly elongated from the radicle.
2. (a)
3. (a) Halophytes growing in saline soils show vivipary for seed germination and have pneumatophores for gaseous exchange.
4. (b) 5. (a)
6. (d) Coconut fruit is a drupe. A drupe is a fleshy fruit with thin skin and central stone containing the seed.
7. (b) The edible part of coconut is its endosperm. Coconut has double endosperm, liquid endosperm and cellular.
8. (c) 9. (c) 10. (d) 11. (d) 12. (a)
13. (b) Binary fission usually takes place in Amoeba, Paramecium and Euglena.
14. (d)
15. (a) The flowers of cucumber are unisexual, it means they have only male flowers or only female flowers.
16. (c) Ovary is partly superior and partly inferior in perigynous flower.

17. (c) Parthenocarpic fruits (e.g., banana) are produced without fertilisation of ovule.
18. (b)
19. (a)
20. (a) Superior ovary is found in china rose, mustard, brinjal, potato, onion and tulip.
Guava and cucumber have inferior ovary.

21. (a) Coconut water is the free nuclear endosperm.

22. (b) Floral formula of Petunia (solanaceae) is

$$\oplus \quad \textcircled{\text{f}} \quad K_{(5)} C_{(5)} \overbrace{A_5} G_{(2)}$$

23. (a) Indigofera is a member of family fabaceae. It has keel type of floral structure in which two anterior fused petals are present.

24. (d)

25. (b) If the margins of sepals or petals overlap one another but not in any particular direction as in Cassia and gulmohur, the aestivation is called imbricate.

26. (c) In tomato, edible part is pericarp and placenta.

27. (b) Aggregate fruits (etaerio) develop from the multicarpellary apocarpous ovary.
They are of following types- etaerio of follicles, etaerio of achenes, etaerio of berries, etaerio of drupes.

28. (c)

37. The roots that originate from the base of the stem are adventitious roots or fibrous roots

38. Ray florets are present in head inflorescence of asteraceae, these followers contains inferior ovary

39. Peach, Plum and rose shows half inferior ovary

40. Diadelphous stamens are found in Fabaceae members – pea

41. The floral formula of

Brassicaceae family – $\oplus \textcircled{\text{f}} K_{2+2} C_4 A_{2+4} G_{(2)}$

Solanaceae family – $\oplus \textcircled{\text{f}} K_{(5)} C_{(5)} \overbrace{A_5} G_{(2)}$

Fabaceae family – $\% \textcircled{\text{f}} K_{(5)} C_{1+2+(2)} A_{(9)+1} G_1$

Liliaceae family – $\oplus \textcircled{\text{f}} P_{(3+3)} \overbrace{A_{3+3} G_{(3)}}$

So a(iii), b(iv), c(ii), d(i) is correct matching.

42. *Pisum sativum* show vexillary aestivation and diadelphous stamens

43. In *Cassia* & *Gulmohar* flowers are Zygomorphic

In mustard, *Datura* and chilli the flowers are actinomorphic

44. B, C, D & E statements are correct

In citrus and *Bougainvillea* the stem is modified into pointed hard thorns

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SKILL MODULES BEING OFFERED IN MIDDLE SCHOOL



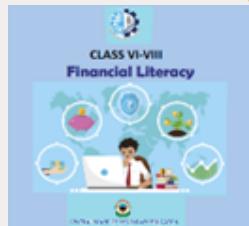
Artificial Intelligence



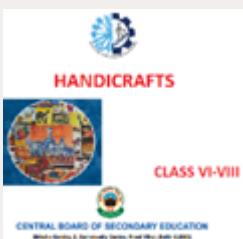
Beauty & Wellness



Design Thinking & Innovation



Financial Literacy



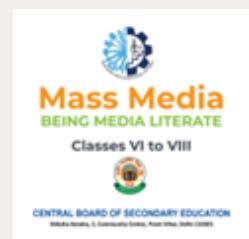
Handicrafts



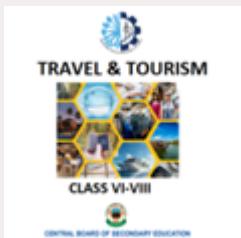
Information Technology



Marketing/Commercial Application



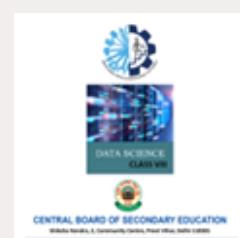
Mass Media - Being Media Literate



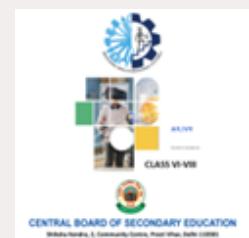
Travel & Tourism



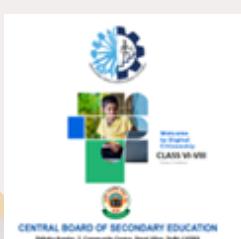
Coding



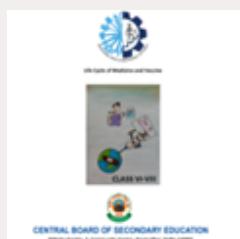
Data Science (Class VIII only)



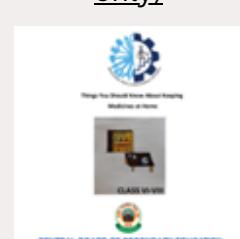
Augmented Reality/
Virtual Reality



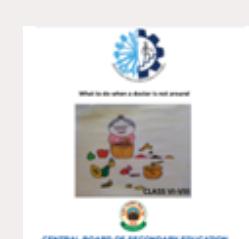
Digital Citizenship



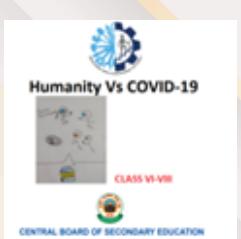
Life Cycle of Medicine &
Vaccine



Things you should know
about keeping Medicines
at home



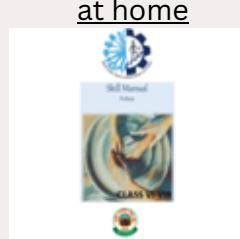
What to do when Doctor
is not around



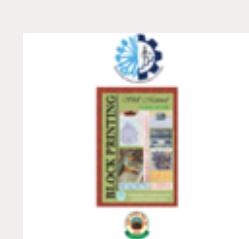
Humanity & Covid-19



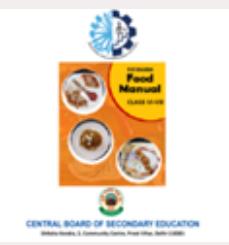
Blue Pottery



Pottery



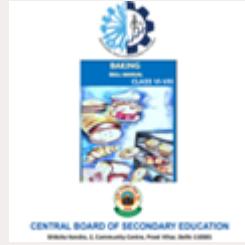
Block Printing



Food



Food Preservation



Baking



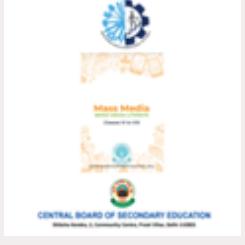
Herbal Heritage



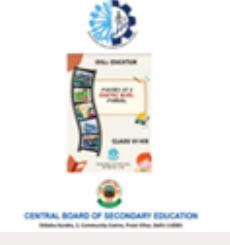
Khadi



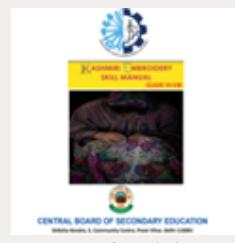
Mask Making



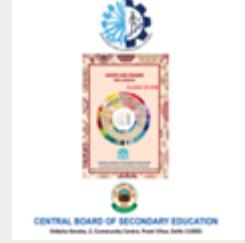
Mass Media



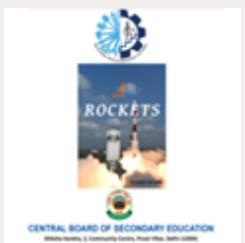
Making of a Graphic Novel



Kashmiri Embroidery



Embroidery



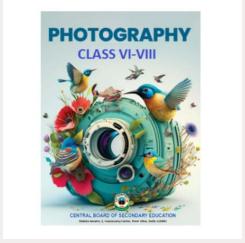
Rockets



Satellites

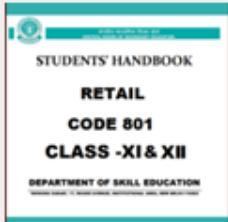


Application of Satellites

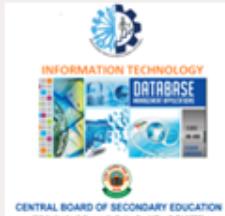


Photography

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI – XII)



Retail



Information Technology



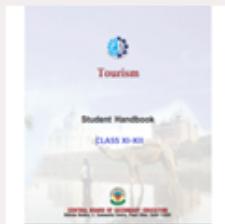
Web Application



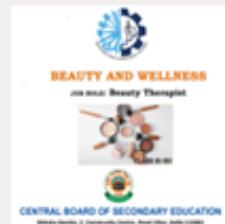
Automotive



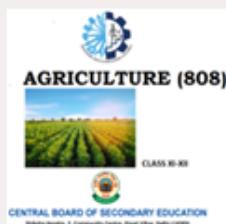
Financial Markets Management



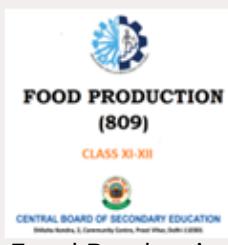
Tourism



Beauty & Wellness



Agriculture



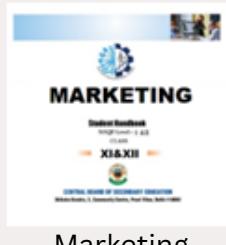
Food Production



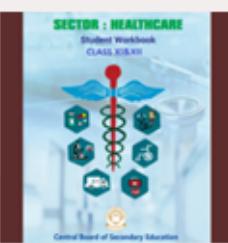
Front Office Operations



Banking



Marketing



Health Care



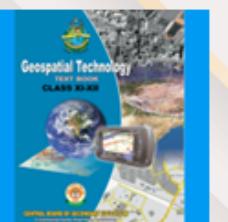
Insurance



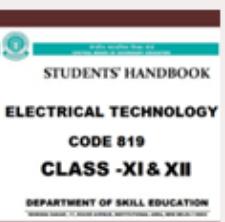
Horticulture



Typography & Comp.
Application



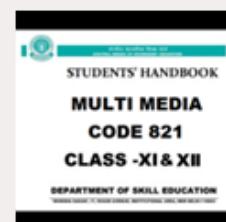
Geospatial Technology



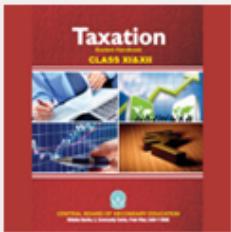
Electrical Technology



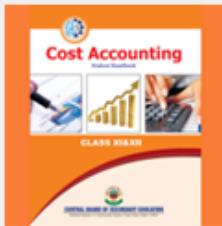
Electronic Technology



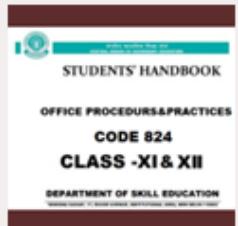
Multi-Media



Taxation



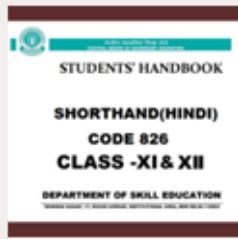
Cost Accounting



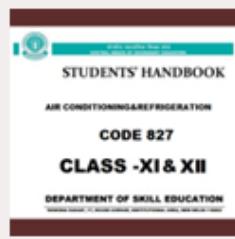
Office Procedures & Practices



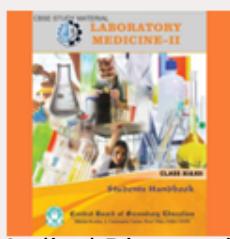
Shorthand (English)



Shorthand (Hindi)



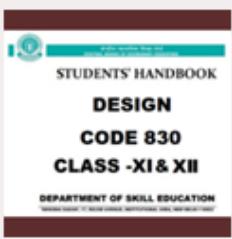
Air-Conditioning & Refrigeration



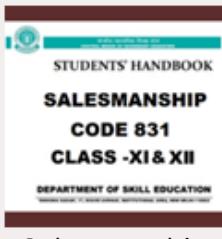
Medical Diagnostics



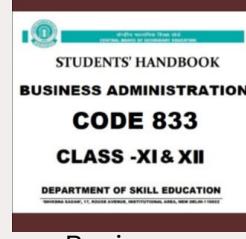
Textile Design



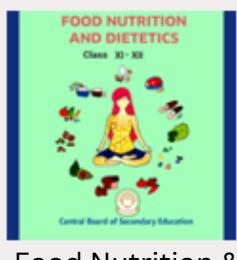
Design



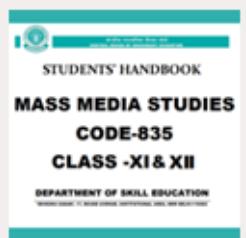
Salesmanship



Business Administration



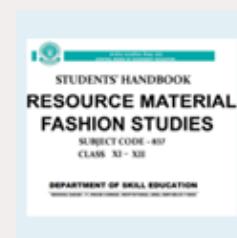
Food Nutrition & Dietetics



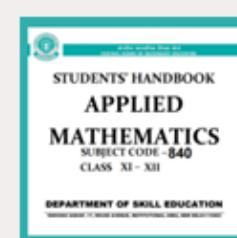
Mass Media Studies



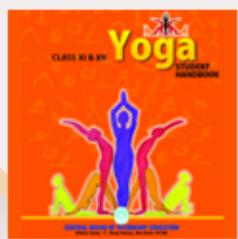
Library & Information Science



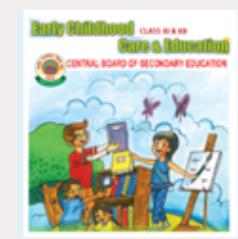
Fashion Studies



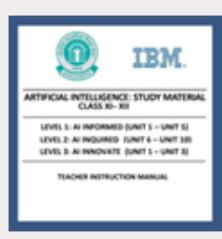
Applied Mathematics



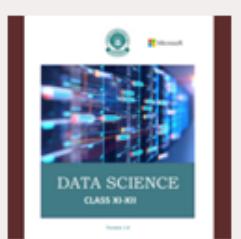
Yoga



Early Childhood Care & Education



Artificial Intelligence



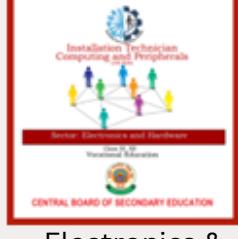
Data Science



Physical Activity Trainer (new)



Land Transportation Associate (NEW)



Electronics & Hardware (NEW)



Design Thinking & Innovation (NEW)

